Course Syllabus

CIS 1.5 – Introduction to Programming Using C++

**Semester**: Fall 2009  
**Instructor**: Roman Usatin  
**Credits**: 4.0  
**Hours**: 5.0   
**Section**: EMW6  
**Schedule**: Monday, Wednesday MW 6:30 PM to 8.35 PM  214 NE

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| Required Text |
| Problem Solving with C++, Jones and Harrow  *This book is available in the Brooklyn College book store. It is not currently available online.* |

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| **Grading breakdown** |
| Programming Assignments 30% |
| Quizzes/Participation 10% |
| Midterm Exam 25% |
| Final Exam 35% |

It is a course requirement to spend **at least** 4 hours a week programming in C++. There are computers available in the WEB (West End Building) with multiple compilers. The compiler that is recommended for this course is CodeBlocks with C++. It is a freeware program and is for all students intending on doing work outside of the WEB.

This section’s website is: http://www.sci.brooklyn.cuny.edu/~rusatin

**How to submit all assignments**

**Hard Copy**

1. Print the C++ code (**the program**).
2. **Output** of the code.
3. Name and assignment number should be on each page.

Soft Copy

We will try an online approach using BlackBoard during the first class. If this option works, we will forgo hard copies completely.

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|  | **Assignment Due** | **Date** | **Topics Covered** |
| 0 |  | Monday, Aug 31 | Chp 1 - Intro and first programs |
| 1 | 0 | Wednesday, Sep 02 |
|  |  | *Monday, Sep 07* | *College Closed* |
| 2 |  | Wednesday, Sep 09 | Chp 2 - Evaluating Expressions and good syntax |
| 3 | 1 | Monday, Sep 14 |
| 4 |  | Wednesday, Sep 16 | Chp 3 - Reading Data and program control |
| 5 | 2 | Monday, Sep 21 |
| 6 |  | Wednesday, Sep 23 | Chp 4 - Summation, Stepwise refinement |
| 7 | 3 | \*\*Meet Tuesday 9/29 | Chp 5 - Functions |
| 8 |  | Wednesday, Sep 30 |
| 9 | 4 | Monday, Oct 05 |
| 10 |  | Wednesday, Oct 07 | MIDTERM REVIEW/LAB |
|  |  | *Monday, Oct 12* | *College Closed* |
| 11 |  | Wednesday, Oct 14 | **MIDTERM** |
| 12 |  | Monday, Oct 19 | Chp 5 - Functions advamced |
| 13 | 5 | Wednesday, Oct 21 | Functional decomposion lecture |
| 14 |  | Monday, Oct 26 | Chp 6 - More control structures |
| 15 | 6 | Wednesday, Oct 28 |
| 16 |  | Monday, Nov 02 | Chp 7 - Arrays |
| 17 | 7 | Wednesday, Nov 04 |
| 18 |  | Monday, Nov 09 |
| 19 | 8 | Wednesday, Nov 11 | Chp 8 - Strings |
| 20 |  | Monday, Nov 16 |
| 21 |  | Wednesday, Nov 18 |
| 22 | 9 | Monday, Nov 23 | Chp 9 - Sorting and searching |
| 23 |  | Wednesday, Nov 25 |
| 24 | 10 | Monday, Nov 30 | Chp 10 - Working with simple Classes |
| 25 |  | Wednesday, Dec 02 |
| 26 | 11 | Monday, Dec 07 | Conversions lecture |
| 27 |  | Wednesday, Dec 09 | Review |
| Wednesday, Dec 16 | | | FINAL EXAM 6:00PM - 8:00PM |

Final Exam is on Saturday 17th TBD hours.

Programming assignments:

Problem Solving with C++ end of Chapter problems

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| Assn 0 | Download Dev C++ and create 3 different programs that have any output you choose. | |
| Assn 1 | Chp 1 | 1, 2, 7a-k, Programs 17, Choose 2: {24, 25a} |
| Assn 2 | Chp 2 | 1, 7, 8, 9, 21, 22 Programs 29, 31 |
| Assn 3 | Chp 3 | 1, 3, 4, 10, 16, Programs 60 and Choose 1: {63, 64} |
| Assn 4 | Chp 4 | 1, 4, Program 20, Chp 5, Programs 31, 33 |
| Assn 5 | Chp 5 | Programs 35, 46 |
| Assn 6 | Chp 6 | Programs 46, 47, 50 |
| Assn 7 | Chp 7 | Programs 20,27, Choose 1 {35, 37, 38, 40} |
| Assn 8 | Chp 8 | Programs 44,45, 46 |
| Assn 9 | Chp 9 | Program 12 or 18 |

NOTE ON PROGRAMMING ASSIGNMENTS

1.      Programs are to be run either on the computers in the *WEB* building or a home computer.  Students who run programs on their home computer are responsible for compatibility issues.

2.       Programming assignments will have a due date.  Lateness will result in a reduced grade.

3.      There is a “significant” amount of outside work required to complete the programming assignments for the course.  It is your responsibility to see to it that the programs are completed and submitted on time.

4.      Students who submit identical (or very similar) assignments, or students who cannot explain the contents of their programs,  or students whose exam grades are not consistent with the quality of the assignments submitted will be assumed not to be doing their own work.